

# METHOD AND APPARATUS FOR INTERNAL MONITORING AND CONTROL OF REFLECTORS IN AN OPTICAL SWITCH

## ABSTRACT OF THE DISCLOSURE

5           The disclosed embodiments include method and apparatus for detecting the alignment of movable reflectors in an optical switch. A diagnostic device embodiment includes a two-dimensional photoimager positioned to receive light from movable mirrors in the switch. Each movable mirror reflects light to different two-dimensional positions on the photoimager based on the position of each movable mirror, thereby creating a two-  
10       dimensional image of the reflector array. A controller receives information from the photoimager and adjusts the positions of the movable mirrors according to light received at the photoimager. A related diagnostic device includes an illumination source for directing monitor light beams onto the movable mirrors where the monitor beams are reflected onto the photoimager. This configuration provides two-dimensional information  
15       concerning the current position of the movable mirrors which is used to monitor and adjust the positions of the movable mirrors of the switch.